



PRO-Line

Excellence in measurement

The Professional line from Inepro metering offers DIN-rail energy meters with the highest possible quality. Inepro offers an outstanding warranty of 5 years. Most meters within the Professional line are MID (Measuring Instruments Directive) certified. The MID approval is the European set of standards for active electricity meters that are used for billing purposes. MID certified meters are officially examined and certified by an authorized independent quality testing institute.

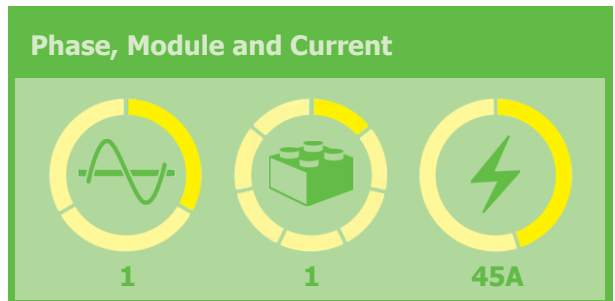
Also when you are not looking for a MID certified meter but need the highest quality energy meters, the Professional line will offer you a large range of options for a competitive price.

■	Single phase energy meters	
□	PRO1 - MID	S05
□	PRO2	S07
□	PRO75 - MID - Modbus/M-bus	S09
■	Three phase energy meters	
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□	PRO1250 - MID - Modbus/M-bus	S13
□	PRO1250 MT - Modbus	S15
□	PRO1250 CT - MID - Modbus/M-bus	S17
■	MID Certified meter overview	S19

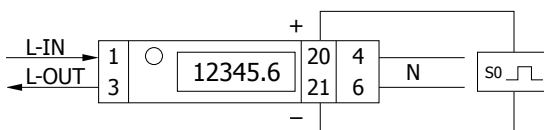
PRO1 - MID

The PRO1D is a single phase kWh metertype with an LCD or mechanical display in a 1 module (18mm) casing. It has an exceptional combination of a high accuracy class (1/B), broad temperature range of -25°C - +45°C and 45A Imax.

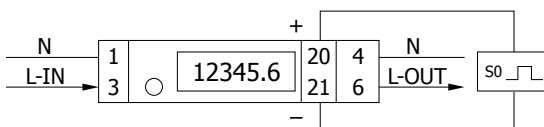
The meter is available in an U and S connection version. These features, the MID approval and a very low starting current make this meter type exceptionally suited for photovoltaic energy systems and general use.



U-connection wiring diagram:



S-connection wiring diagram:



“Exceptionally suited for photovoltaic energy systems.”

Specifications

Technical specifications

■	Height with protection cover	: 120mm
■	Height without protection cover	: 91mm
■	Width	: 18mm
■	Depth	: 63,5mm
■	Mounting	: DIN rail
■	Active energy	: $\pm 1\%$
■	Starting current	: 0,05I _b
■	Impulse S0 duration	: 80ms
■	Operating humidity	: $\leq 75\%$
■	Storage humidity	: $\leq 95\%$
■	Operating temperature	: $-25^{\circ} \sim +55^{\circ}\text{C}$
■	Storage temperature	: $-30^{\circ} \sim +70^{\circ}\text{C}$
■	Nominal Voltage (Un)	: 230V AC
■	Operational Voltage	: 195~253V
■	AC Voltage withstand for 1 min	: 4KV
■	Impulse voltage 1.2uS Waveform	: 6KV
■	Basic current (I _b)	: 5A
■	Max current (I _{max})	: 45A
■	Operational current range	: 0,4%I _b ~I _{max}
■	Over current withstand	: 30I _{max} for 0.01s
■	Operational frequency range	: 45-60Hz
■	Int. power consumption	: $\leq 2\text{W/Phase} - \leq 10\text{VA/Phase}$
■	Basic error	: standard
■	International standard	: EN50470-3
■	IP protection	: 51
■	Protective class	: II
■	Warranty	: 60 months

Different models

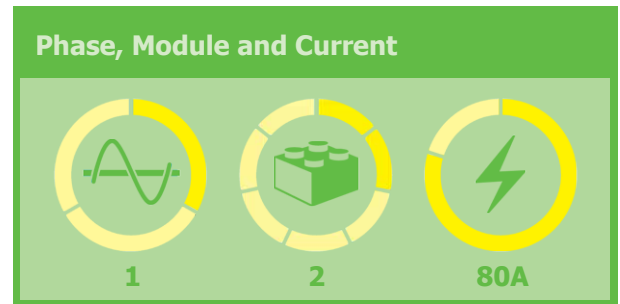
Article number	MID	Phase	Mod.	Cur.	Com.	Display	Digits	Con. mode	S0	Back-light	Acc. Class	Con.	Impulse rate
0015 PRO1	Yes	1	1	45A	x	Mech.	5+1	direct	1	/	B	U	2000 ¹
0179 PRO1	Yes	1	1	45A	x	LCD	5+2/6+1	direct	1	Yes	B	U	2000 ¹
0172 PRO1	Yes	1	1	45A	x	LCD	5+2/6+1	direct	1	x	B	U	2000 ¹
0144 PRO1	x	1	1	45A	x	Mech.	5+1	direct	1	/	1	U	2000 ¹
0011 PRO1	x	1	1	45A	x	LCD	5+2/6+1	direct	1	Yes	1	U	2000 ¹
0105 PRO1	x	1	1	45A	x	LCD	5+2/6+1	direct	1	x	1	U	2000 ¹
0161 PRO1	x	1	1	45A	x	LCD	5+2/6+1	direct	1	Yes	1	S	2000 ¹
0180 PRO1	Yes	1	1	45A	x	LCD	5+2/6+1	direct	1	Yes	1	S	2000 ¹

¹ optional available with an impulse rate of 1000; please contact Inepro for corresponding article code

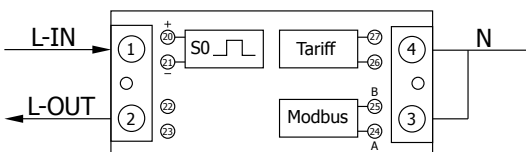
PRO2 - Modbus

The PRO2D is a single phase kWh meter type with an LCD or mechanical display in a 2 module (36mm) casing and with a high accuracy class (1).

The PRO2DM has been equipped with a RS485/Modbus communication module and has 2 tariffs.



Modbus-com. wiring diagram:



"A 2-module energy meter with 2 tariffs."

Specifications

Technical specifications

■	Height with protection cover	: 140mm
■	Height without protection cover	: 90mm
■	Width	: 36mm
■	Depth	: 65mm
■	Mounting	: DIN rail
■	Active energy	: $\pm 1\%$
■	Starting current	: 0,05I _b
■	Impulse S0 duration	: 80ms
■	Operating humidity	: $\leq 75\%$
■	Storage humidity	: $\leq 95\%$
■	Operating temperature	: $-25^{\circ} \sim +55^{\circ}\text{C}$
■	Storage temperature	: $-30^{\circ} \sim +70^{\circ}\text{C}$
■	Nominal Voltage (Un)	: 230V AC
■	Operational Voltage	: 161~253 V
■	AC Voltage withstand for 1 min	: 4KV
■	Impulse voltage 1.2uS Waveform	: 6KV
■	Basic current (I _b)	: 10A
■	Max current (I _{max})	: 80A
■	Operational current range	: 0,4%I _b ~I _{max}
■	Over current withstand	: 30I _{max} for 0.01s
■	Operational frequency range	: 45-60Hz
■	Int. power consumption	: $\leq 2\text{W/Phase} - \leq 10\text{VA/wPhase}$
■	Basic error	: standard
■	International standard	: EN50470-3 / RTU with 16 bit CRC (Modbus)
■	IP protection	: 51
■	Protective class	: II
■	Multi tariff	: Yes; 2 tariffs
■	Warranty	: 60 months

Different models

Article number	MID	Phase	Mod.	Cur.	Com.	Display	Digits	Con. mode	S0	Back-light	Acc. Class	Impulse rate
0119 PRO2	x	1	2	80A	x	Mech.	5+1	direct	1	/	1	1000 ¹
0117 PRO2	x	1	2	80A	x	LCD	5+1	direct	1	x	1	2000 ²
0115 PRO2DM	x	1	2	80A	Modbus	LCD	5+1	direct	1	x	1	1000 ³

¹ optional available with an impulse rate of 2000; please contact Inepro for corresponding article code

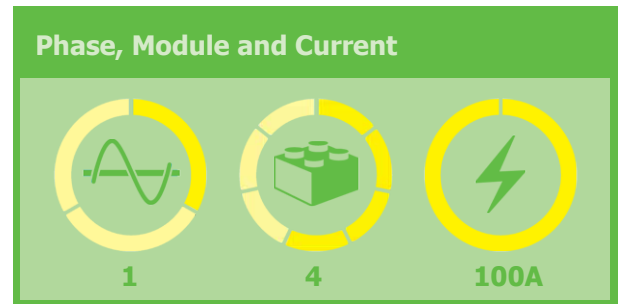
² optional available with an impulse rate of 1000; please contact Inepro for corresponding article code

³ selectable options: 1000-100-10-1-0.1

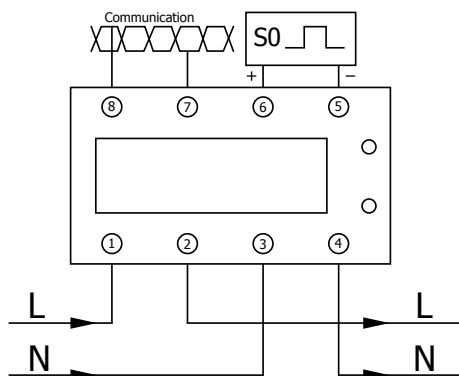
PRO75 - MID - Modbus/M-bus

The PRO75 is a single phase kWh meter with an LCD or mechanical display in a 4 module housing (76mm).

You can choose for RS485/Modbus or M-bus communication type. The meter can also be read out via Far Infra Red.



Modbus-/M-bus-com. wiring diagram:



“Available with Modbus or M-bus communication.”

Specifications

Technical specifications

■	Height with protection cover	: 130mm
■	Height without protection cover	: 100mm
■	Width	: 76mm
■	Depth	: 65mm
■	Mounting	: DIN rail
■	Active energy	: $\pm 1\%$
■	Starting current	: $0,05I_b$
■	Impulse S0 duration	: 80ms
■	Operating humidity	: $\leq 75\%$
■	Storage humidity	: $\leq 95\%$
■	Operating temperature	: $-25^\circ \sim +55^\circ\text{C}$
■	Storage temperature	: $-30^\circ \sim +70^\circ\text{C}$
■	Nominal Voltage (Un)	: 230V AC
■	Operational Voltage	: 161~299V
■	AC Voltage withstand for 1 min	: 4KV
■	Impulse voltage 1.2uS Waveform	: 6KV
■	Basic current (Ib)	: 10A
■	Max current (Imax)	: 100A
■	Operational current range	: $0,4\%I_b \sim I_{\text{max}}$
■	Over current withstand	: $30I_{\text{max}}$ for 0.01s
■	Operational frequency range	: 45-60Hz
■	Int. power consumption	: $\leq 2\text{W/Phase} - \leq 10\text{VA/wPhase}$
■	Basic error	: standard
■	International standard / protocol	: EN50470-3 & EN13757-3 (M-bus) / RTU with 16 bit CRC (Modbus)
■	IP protection	: 51
■	Protective class	: II
■	Warranty	: 60 months

Different models

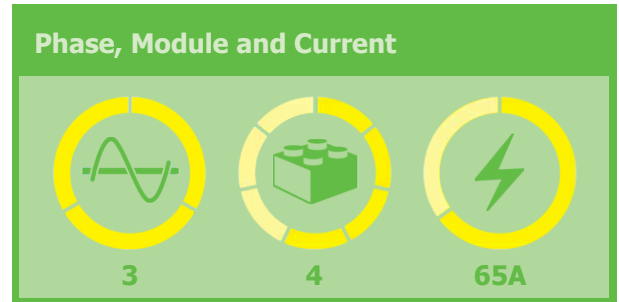
Article number	MID	Phase	Mod.	Cur.	Com.	Display	Digits	Con. mode	S0	Back-light	Acc. Class	Impulse rate
0016 PRO75	x	1	4	100A	x	Mech.	5+1	Direct	1	/	1	1600
0031 PRO75	Yes	1	4	100A	x	Mech.	5+1	Direct	1	/	B	1600
0021 PRO75	x	1	4	100A	x	LCD	5+2	Direct	1	x	1	1600
0018 PRO75	Yes	1	4	100A	x	LCD	5+2	Direct	1	x	B	1600
0183 PRO75	x	1	4	100A	Modbus	LCD	5+2	Direct	1	x	1	1600
0020 PRO75	Yes	1	4	100A	Modbus	LCD	5+2	Direct	1	x	B	1600
0191 PRO75	x	1	4	100A	M-bus	LCD	5+2	Direct	1	x	1	1600

¹ display digits shown at a CT-ratio: 6+1 (5:5 to 200:5) - 7+0 (200:5 to 3000:5)

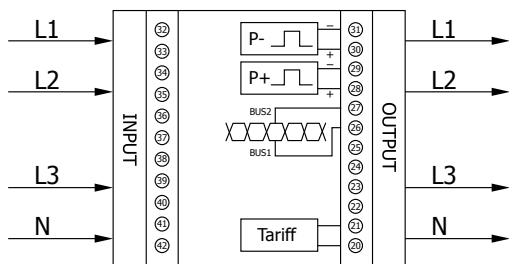
PRO370 - MID - M-bus

The PRO370D is a three phase kWh meter type with an LCD display in an exceptional small casing of 4 modules (76mm).

This MID approved meter communicates via the German M-bus protocol as well as Far Infrared. More than 40 variables can be read out and the meter has secondary addressing, 2 tariffs and a programmable S0 output.



M-bus-com. wiring diagram:



"MID-approved meter that can read out more than 40 variables."

Specifications

Technical specifications

■	Height with protection cover	: 140mm
■	Height without protection cover	: 90mm
■	Width	: 76mm
■	Depth	: 65mm
■	Mounting	: DIN rail
■	Active energy	: $\pm 1\%$
■	Starting current	: 0,05I _b
■	Impulse S0 duration	: 80ms
■	Operating humidity	: $\leq 75\%$
■	Storage humidity	: $\leq 95\%$
■	Operating temperature	: -25° ~ +55°C
■	Storage temperature	: -30° ~ +70°C
■	Nominal Voltage (Un)	: 230/400V AC
■	Operational Voltage	: 100/173V ~ 270/468V / 161/279V ~ 300/520V (DRM370)
■	AC Voltage withstand for 1 min	: 4KV
■	Impulse voltage 1.2uS Waveform	: 6KV
■	Basic current (I _b)	: 10A
■	Max current (I _{max})	: 65A / 100A (DRM370)
■	Operational current range	: 0,4%I _b ~I _{max}
■	Over current withstand	: 30I _{max} for 0.01s
■	Operational frequency range	: 45-60Hz
■	Int. power consumption	: $\leq 2\text{W/Phase}$ - $\leq 10\text{VA/Phase}$
■	Basic error	: standard
■	International standard / protocol	: EN50470-3 & EN13757-3 (M-bus) / EN62053-21 (DRM370)
■	IP protection	: 51
■	Protective class	: II
■	Warranty	: 60 months / 12 months (DRM370)

Different models

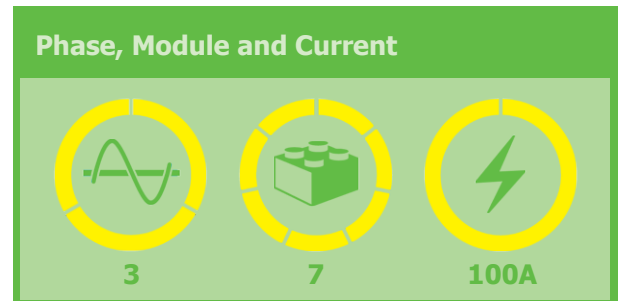
Article number	MID	Phase	Mod.	Cur.	Com.	Display	Digits	Con. mode	S0	Back-light	Acc. Class	Impulse rate
0211 PRO370	Yes	3	4	65A	x	LCD	6+2	direct	2	x	B	Selectable ¹
0212 PRO370	Yes	3	4	65A	M-bus	LCD	6+2	direct	2	x	B	Selectable ¹
0202 PRO370	x	3	4	65A	x	LCD	6+2	direct	2	x	1	Selectable ¹
0033 PRO370	x	3	4	65A	M-bus	LCD	6+2	direct	2	x	1	Selectable ¹
0035 DRM370	x	3	4	100A	x	Mech.	5+1	direct	1	/	1	400

¹ selectable options: 400-100-10-1-0.1

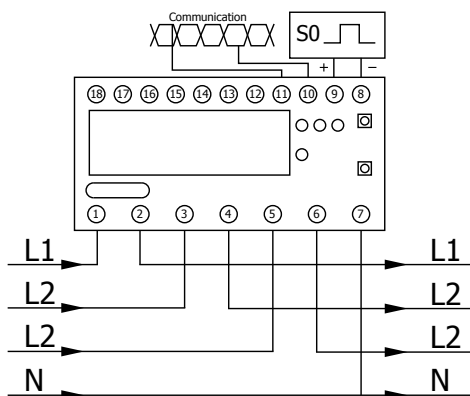
PRO1250 - MID - Modbus/M-bus

The PRO1250 is a three phase kWh meter type with an LCD display or mechanical register in a casing of 7 modules (126 mm).

The direct type has been MID approved and is available with RS485/Modbus or M-bus communication.



Modbus-/M-bus-com. wiring diagram:



“7-module meter available with Modbus or M-bus communication.”

Specifications

Technical specifications

■	Height with protection cover	: 130mm
■	Height without protection cover	: 100mm
■	Width	: 126mm
■	Depth	: 65mm
■	Mounting	: DIN rail
■	Active energy	: $\pm 1\%$
■	Starting current	: 0,05I _b
■	Impulse S0 duration	: 80ms
■	Operating humidity	: $\leq 75\%$
■	Storage humidity	: $\leq 95\%$
■	Operating temperature	: -25° ~ +55°C
■	Storage temperature	: -30° ~ +70°C
■	Nominal Voltage (Un)	: 230V AC
■	Operational Voltage	: 161/279V ~ 300/520V
■	AC Voltage withstand for 1 min	: 4KV
■	Impulse voltage 1.2uS Waveform	: 6KV
■	Basic current (I _b)	: 10A
■	Max current (I _{max})	: 100A
■	Operational current range	: 0,4%I _b ~I _{max}
■	Over current withstand	: 30I _{max} for 0.01s
■	Operational frequency range	: 45-60Hz
■	Int. power consumption	: $\leq 2\text{W/Phase}$ - $\leq 10\text{VA/Phase}$
■	Basic error	: standard
■	International standard / protocol	: EN50470-3 & EN13757-3 (M-bus) / RTU with 16 bit CRC (Modbus)
■	IP protection	: 51
■	Protective class	: II
■	Warranty	: 60 months

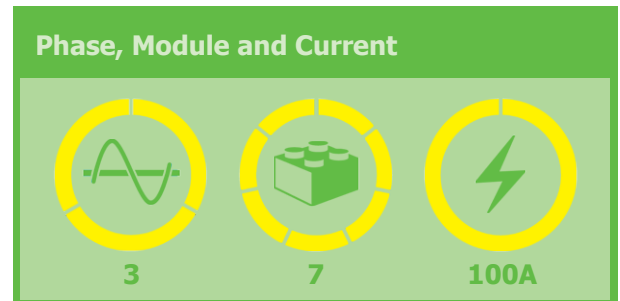
Different models

Article code	MID	Phase	Mod.	Cur.	Com.	Display	Digits	Con. mode	S0	Back-light	Acc. Class	Impulse rate
0022 PRO1250	x	3	7	100A	X	Mech.	6+1	direct	1	/	1	400
0047 PRO1250	Yes	3	7	100A	X	Mech.	6+1	direct	1	/	B	400
0045 PRO1250	x	3	7	100A	X	LCD	6+1	direct	1	x	1	400
0025 PRO1250	Yes	3	7	100A	X	LCD	6+1	direct	1	x	B	400
0168 PRO1250	x	3	7	100A	Modbus	LCD	6+1	direct	1	x	1	400
0026 PRO1250	Yes	3	7	100A	Modbus	LCD	6+1	direct	1	x	B	400
0181 PRO1250	x	3	7	100A	M-bus	LCD	6+1	direct	1	x	1	400
0023 PRO1250	Yes	3	7	100A	M-bus	LCD	6+1	direct	1	x	B	400

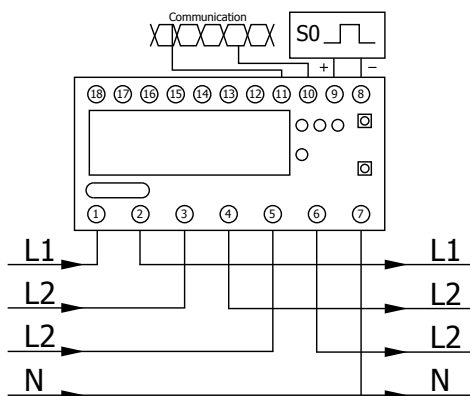
PRO1250 MT - Modbus

The PRO1250 MT series are multi-tariff meters and therefore exceptionally suitable for more sophisticated (industrial) application. They are three phase kWh meters with in a casing of 7 modules (126 mm).

This 100A directly connected meter type uses a Modbus communication protocol. The LCD display shows over 26 variables for the MF1T and 60 for the MF4T, variables like voltage, current, reactive power, apparent power, reverse energy and power factor per phase.



Modbus-com. wiring diagram:



“This multi tariff meter is exceptionally suitable for industrial applications”

Specifications

Technical specifications

■	Height with protection cover	: 130mm
■	Height without protection cover	: 100mm
■	Width	: 126mm
■	Depth	: 65mm
■	Mounting	: DIN rail
■	Active energy	: $\pm 1\%$
■	Starting current	: 0,05I _b
■	Impulse S0 duration	: 80ms
■	Operating humidity	: $\leq 75\%$
■	Storage humidity	: $\leq 95\%$
■	Operating temperature	: -25° ~ +55°C
■	Storage temperature	: -30° ~ +70°C
■	Nominal Voltage (Un)	: 230V AC
■	Operational Voltage	: 161/279V ~ 300/520V
■	AC Voltage withstand for 1 min	: 4KV
■	Impulse voltage 1.2uS Waveform	: 6KV
■	Basic current (I _b)	: 10A
■	Max current (I _{max})	: 100A
■	Operational current range	: 0,4%I _b ~I _{max}
■	Over current withstand	: 30I _{max} for 0.01s
■	Operational frequency range	: 45-60Hz
■	Int. power consumption	: $\leq 2\text{W/Phase}$ - $\leq 10\text{VA/Phase}$
■	Basic error	: standard
■	International standard / protocol	: EN50470-3 & RTU with 16 bit CRC
■	IP protection	: 51
■	Protective class	: II
■	Warranty	: 60 months

Different models

Article code	MID	Phase	Mod.	Cur.	Com.	Display	Digits	Con. mode	S0	Back-light	Acc. Class	Impulse rate	Tariffs
0024 PRO1250 ¹	x	3	7	100A	Modbus	LCD	5+2	direct	2	Yes	1	400	1
0007 PRO1250 ²	x	3	7	100A	Modbus	LCD	5+2	direct	1	Yes	1	400	4

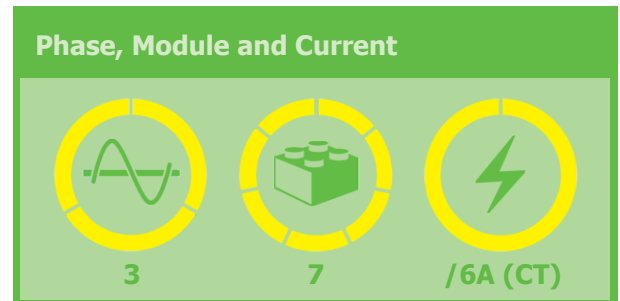
¹ PRO1250 MF1T

² PRO1250 MF4T

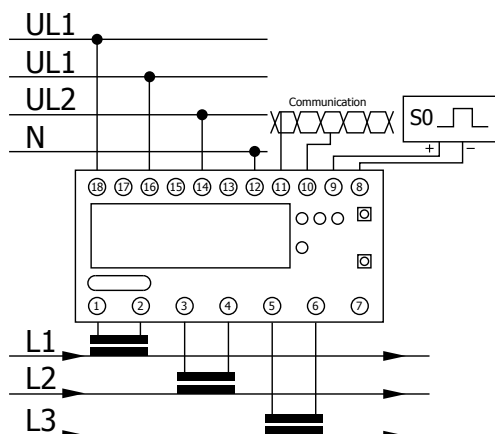
PRO1250 CT - MID - Modbus/M-bus

The PRO1250 is a three phase kWh meter type with an LCD display or mechanical register in a casing of 7 modules (126 mm).

The CT type has been MID approved and is available with RS485/Modbus or M-bus communication.



CT Modbus/M-bus-com. wiring diagram:



“Especially suitable for industrial applications because of CT-connection.”

Specifications

Technical specifications

■	Height with protection cover	: 130mm
■	Height without protection cover	: 100mm
■	Width	: 126mm
■	Depth	: 65mm
■	Mounting	: DIN rail
■	Active energy	: $\pm 1\%$
■	Starting current	: $0,05I_b$
■	Impulse S0 duration	: 80ms
■	Operating humidity	: $\leq 75\%$
■	Storage humidity	: $\leq 95\%$
■	Operating temperature	: $-25^\circ \sim +55^\circ\text{C}$
■	Storage temperature	: $-30^\circ \sim +70^\circ\text{C}$
■	Nominal Voltage (Un)	: 230V AC
■	Operational Voltage	: 161/279V \sim 300/520V
■	AC Voltage withstand for 1 min	: 4KV
■	Impulse voltage 1.2uS Waveform	: 6KV
■	Basic current (Ib)	: 1.5A
■	Max current (Imax)	: 6A
■	Operational current range	: $0,4\%I_b \sim I_{\text{max}}$
■	Over current withstand	: $30I_{\text{max}}$ for 0.01s
■	Operational frequency range	: 45-60Hz
■	Int. power consumption	: $\leq 2\text{W/Phase} - \leq 10\text{VA/Phase}$
■	Basic error	: standard
■	International standard / protocol	: EN50470-3 & EN13757-3 (M-bus) / RTU with 16 bit CRC (Modbus)
■	IP protection	: 51
■	Protective class	: II
■	Warranty	: 60 months

Different models

Article code	MID	Phase	Mod.	Cur.	Com.	Display	Digits	Con. mode	S0	Back-light	Acc. Class	Impulse rate
0166 PRO1250	x	3	7	/6A	x	LCD	6+1 ²	CT	1	x	1	1600
0085 PRO1250	x	3	7	/6A	x	Mech.	6+1 ²	CT	1	/	1	1600
0152 PRO1250	Yes	3	7	/6A	x	LCD	6+1 ²	CT	1	x	B	1600
0192 PRO1250	x	3	7	/6A	Modbus	LCD	6+1 ²	CT	1	x	1	1600
0153 PRO1250	Yes	3	7	/6A	Modbus	LCD	6+1 ²	CT	1	x	B	1600
0167 PRO1250	x	3	7	/6A	M-bus	LCD	6+1 ²	CT	1	x	1	1600
0151 PRO1250	Yes	3	7	/6A	M-bus	LCD	6+1 ²	CT	1	x	B	1600

² display digits shown at a CT-ratio: 6+1 (5:5 to 200:5) - 7+0 (200:5 to 3000:5)

MID Certified Meter overview

The overview below show all our MID approved meters:

Article code	Phase	Mod.	Cur.	Com.	Display	Digits	Con. mode	S0	Back-light	Acc. Class	Impulse rate
0015 PRO1	1	1	45A	x	Mech.	5+1	direct	1	/	B	2000 ¹
0179 PRO1	1	1	45A	x	LCD	5+2/6+1	direct	1	Yes	B	2000 ¹
0172 PRO1	1	1	45A	x	LCD	5+2/6+1	direct	1	x	B	2000 ¹
0180 PRO1 ²	1	1	45A	x	LCD	5+2/6+1	direct	1	Yes	B	2000 ¹
0031 PRO75	1	4	100A	x	Mech.	5+1	direct	1	/	B	1600
0018 PRO75	1	4	100A	x	LCD	5+2	direct	1	x	B	1600
0020 PRO75	1	4	100A	Modbus	LCD	5+2	direct	1	x	B	1600
0212 PRO370	3	4	65A	M-bus	LCD	6+1	direct	2	x	B	Selectable ³
0211 PRO370	3	4	65A	x	LCD	6+1	direct	2	x	B	Selectable ³
0047 PRO1250	3	7	100A	x	Mech.	6+1	direct	1	/	B	400
0025 PRO1250	3	7	100A	x	LCD	6+1	direct	1	x	B	400
0026 PRO1250	3	7	100A	Modbus	LCD	6+1	direct	1	x	B	400
0023 PRO1250	3	7	100A	M-bus	LCD	6+1	direct	1	x	B	400
0152 PRO1250	3	7	/6A	x	LCD	6+1 ⁴	CT	1	x	B	1600
0153 PRO1250	3	7	/6A	Modbus	LCD	6+1 ⁴	CT	1	x	B	1600
0151 PRO1250	3	7	/6A	M-bus	LCD	6+1 ⁴	CT	1	x	B	1600

¹ optional available with an impulse rate of 1000; please contact Inepro for corresponding article code

² connection type S

³ selectable options: 400-100-10-1-0.1

⁴ display digits shown at a CT-ratio: 6+1 (5:5 to 200:5) - 7+0 (200:5 to 3000:5)